



Search for

1: Neuroreport 1998 Jul 13;9(10):2365-9

Related Articles: Br

GDNF administration induces recovery of the nigrostriatal dopaminergic system both in young and aged parkinsonian mic

Date I, Aoi M, Tomita S, Collins F, Ohmoto T.

Department of Neurological Surgery, Okayama University Medical School,

Glial cell line-derived neurotrophic factor (GDNF) is a member of the transferrin growth factor beta superfamily and acts as a neurotrophic factor for the nigro-dopaminergic system. GDNF was injected stereotactically into the striatum of 6 months old and aged (12 months old) C57BL/6 mice that were treated with 4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) 1 week earlier. Immunocytochemical and neurochemical analyses showed significant recovery of the nigrostriatal dopaminergic system both in young and in aged mice. Since Parkinson's disease is a neurodegenerative disorder mainly affecting elderly people, this result demonstrates the potential usefulness of GDNF in treating Parkinson's disease.

PMID: 9694229 [PubMed - indexed for MEDLINE]

Write to the Help Desk
NCBI | NLM | NIH
Department of Health & Human Services
Freedom of Information Act | Disclaimer